



STIC Search Report

EIC 3700

STIC Database Tracking Number 224026

TO: William Rodriguez
Location: RND 9a71
Art Unit: 3746
Tuesday, May 08, 2007

Case Serial Number: 10/806087

From: Terry Solomon
Location: EIC 3700
RND 8b31
Phone: 272-4240

terrance.solomon@uspto.gov

Search Notes

No current or active litigation found involving US pat. 6672846.

Sources:

Lexis/Nexis
Questel-Orbit
Courtlink

842349 (09) 6672846 January 6, 2004

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6672846

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January 6, 2004

Capacity modulation for plural compressors

REISSUE: March 22, 2004 - Reissue Application filed Ex. Gp.: 3748; Re. S.N. 10/806,087 (O.G. June 22, 2004)

APPL-NO: 842349 (09)

FILED-DATE: April 25, 2001

GRANTED-DATE: January 6, 2004

ASSIGNEE-PRE-ISSUE: April 25, 2001 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., COPELAND CORPORATION 1675 W. CAMPBELL ROADSIDNEY, OHIO, 45365, Reel and Frame Number: 011757/0024

ASSIGNEE-AT-ISSUE: Copeland Corporation, Sidney, Ohio, United States (US), United States company or corporation (02)

ASSIGNEE-AFTER-ISSUE: April 26, 2007 - CERTIFICATE OF CONVERSION, ARTICLES OF FORMATION AND ASSIGNMENT, EMERSON CLIMATE TECHNOLOGIES, INC. 1675 W. CAMPBELL RD. SIDNEY OHIO 45365-0669, Reel and Frame Number: 019215/0273

LEGAL-REP: Harness, Dickey & Pierce, P.L.C.

Patent Search 6,672,846 5/8/2007

No cases found.

Selected file: PLUSPAT
PLUSPAT - (c) Questel-Orbit, All Rights Reserved.
Comprehensive Worldwide Patents database

**** SS 1: Results 1**
PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image
Patent Number :
US2002159898 A1 20021031 [US20020159898]
Patent Number 2 :
US6672846 B2 20040106 [US6672846]
Title :
(A1) Plural compressors
Patent Assignee :
(B2) COPELAND CORP (US)
Patent Assignee :
Copeland Corporation, Sidney OH [US]
Patent Assignee 2 :
(B2) COPELAND CORP (US)
Inventor(s) :
(A1) RAJENDRAN RAJAN (US); SHERIDAN JOHN P (US); KNAPKE CARL H (US)
Application Nbr :
US84234901 20010425 [2001US-0842349]
Priority Details :
US84234901 20010425 [2001US-0842349]
Intl Patent Class :
(A1) F04B-017/00 F04B-035/04 F04B-049/00
IPC Advanced All :
F04C-018/02 [2006-01 A L I R M JP]; F04C-023/00 [2006-01 A - I R M EP];
F04C-023/02 [2006-01 A L I R M JP]; F04C-028/02 [2006-01 A L I R M JP];
F04C-028/08 [2006-01 A L I R M JP]; F04C-029/00 [2006-01 A - I R M EP];
F04C-029/04 [2006-01 A - I R M EP]
IPC Core All :
F04C-018/02 [2006 C L I R M JP]; F04C-023/00 [2006 C - I R M EP];
F04C-028/00 [2006 C L I R M JP]; F04C-029/00 [2006 C - I R M EP];
F04C-029/04 [2006 C - I R M EP]
EPO ECLA Class :
F04C-023/00B
F04C-023/00D
F04C-028/08
F04C-029/00B2
F04C-029/04B
F04C-029/12B
EPO ICO Class :
R04C-018/02B2
R04C-029/10C2B
US Patent Class :
ORIGINAL (O) : 417410500; CROSS-REFERENCE (X) : 417426000 418055100
Document Type :
Corresponding document
Citations :
Cited; US5800141; US6206652; US6213731; US6267572; US6280154;
JP56165701; JP5738690; JP0294987; JP04121474; JP404203489; Cited;
US4105374; US4205537; US4252506; US4277955; US4358254; US4396360;
US4515539; US5211031; US5328344; US5385453; US6193473
Publication Stage :
(A1) Utility Patent Application published on or after January 2, 2001
Publication Stage 2 :
(B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001
Abstract :
A compressor system includes a pair of compressors located in a common shell. A common drive shaft drives both compressors and the drive shaft

is powered by a single motor. One or both of the compressors can be equipped with a pulse width modulated capacity control system and a vapor injection system. When one compressor is equipped with these systems, the capacity can be varied between 50% and 110%. When both compressors are equipped with these systems, the capacity can be varied between 0% and 120%.

Update Code :
2002-45

1 / 1 LGST - @EPO

Patent Number :
US2002159898 A1 20021031 [US20020159898]
US6672846 B2 20040106 [US6672846]

Application Number :
US84234901 20010425 [2001US-0842349]

Action Taken :
20010425 US/AS-A
ASSIGNMENT
OWNER: COPELAND CORPORATION 1675 W. CAMPBELL ROADSIDNEY,; EFFECTIVE
DATE: 20010417
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:RAJENDRAN, RAJAN
/AR;REEL/FRAME:011757/0024

20040406 US/CC-A
CERTIFICATE OF CORRECTION

20040622 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040322

Update Code :
2006-04

1 / 1 CRXX - @CLAIMS/RRX

Patent Number :
6,672,846 A 20040106 [US6672846]

Patent Assignee :
Copeland Corp

Actions :
20040322 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040622
REISSUE REQUEST NUMBER: 10/806087
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3748

Reissue Patent Number:

20070426 REASSIGNED
CERTIFICATE OF CONVERSION, ARTICLES OF FORMATION AND ASSIGNMENT

Assignor: COPELAND CORPORATION, DATE SIGNED: 09/27/2006

Assignee: EMERSON CLIMATE TECHNOLOGIES, INC., 1675 W. CAMPBELL RD.,
SIDNEY, OHIO, 45365-0669

Reel 019215/Frame 0273

Contact: MICHAEL MALINZAK, HARNESS, DICKEY & PIERCE, P.L.C., 5445

CORPORATE DR., TROY, MI 48098

Session finished: 08 MAY 2007 Time 14:11:50
QUESTEL.ORBIT thanks you. Hope to hear from you again soon.